Review Test Submission: Quiz 9.8

User	David Kirby
Course	Intro to Control Systems - Fall 2020 Section Group I67
Test	Quiz 9.8
Started	11/24/20 12:30 PM
Submitted	11/24/20 12:31 PM
Status	Completed
Attempt Score	4 out of 4 points
Time Elapsed	0 minute
Results Displayed	All Answers, Submitted Answers, Incorrectly Answered Questions

Question 1

1 out of 1 points

True or false? Nyquist diagams can be used to assess relative stability.

Selected Answer: True

Answers: True
False

Question 2

1 out of 1 points

For stability, the phase margin and gain margin must satisfy

Selected Answer: $G_M > 0$ and $\Phi_M > 0$

Answers: $G_M > 0$ or $\Phi_M > 0$

$G_M > 0$ and $\Phi_M > 0$

$G_M > 0$

$\Phi_M > 0$

Question 3

1 out of 1 points

Gain margin and phase margin are determined in the Nyquist diagram by

Selected Answer: The distance to the -1 point.

Answers: The distance to the origin.
The distance to the +1 point.

The distance to the negative real line.

The distance to the -1 point.

Question 4

1 out of 1 points

Gain margin is described by

Selected Answer: the multiplicative gain factor required to make the negative real-axis crossing coincide with the -1 point

Answers:
the multiplicative gain factor required to make the negative real-axis crossing coincide with the origin

the additive gain factor required to make the negative real-axis crossing coincide with the unit circle.

the amount of gain that needs to be subtracted, in order to make the negative real-axis crossing coincide with the -1 point.

the multiplicative gain factor required to make the negative real-axis crossing coincide with the -1 point

Tuesday, November 24, 2020 12:31:45 PM MST

← OK